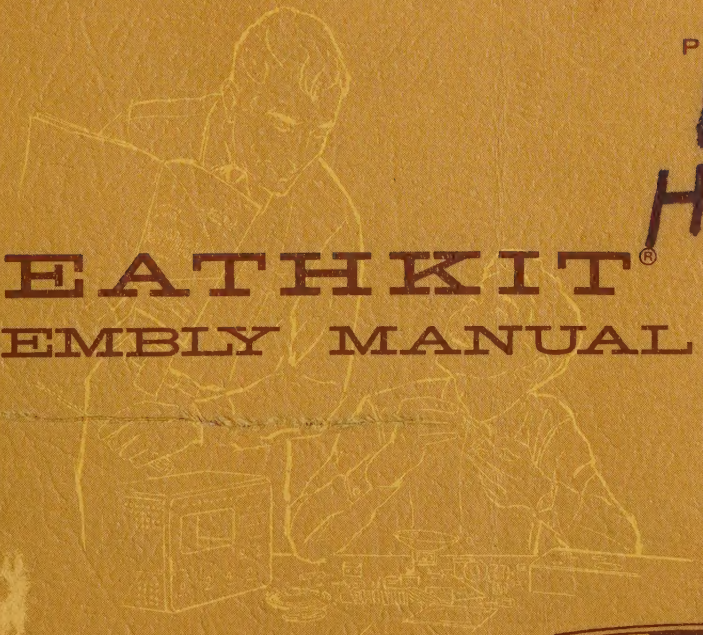
PRICE $1.00

HH-2

HEATHKIT®

ASSEMBLY MANUAL



HEATHKIT® by Daystrom

SOLDERING IRON

MODEL GH-52

BENTON HARBOR, MICHIGAN
HEATH COMPANY

RESISTOR COLOR CODES

The colored bands around the body of a color coded resistor represent its value in ohms. These colored bands are grouped toward one end of the resistor body. Starting with this end of the resistor, the first band represents the first digit of the resistance value; the second band represents the second digit, the third band represents the number by which the first two digits are multiplied. A fourth band of gold or silver represents a tolerance of ±5% or ±10% respectively. The absence of a fourth band indicates a tolerance of ±20%.

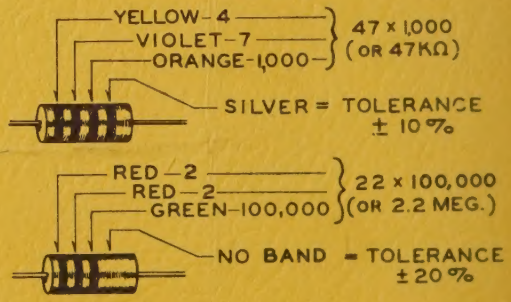
The physical size of a composition resistor is related to its wattage rating. Size increases progressively as the wattage rating is increased. The diameters of 1/2 watt, 1 watt and 2 watt resistors are approximately 1/8", 1/4" and 5/16", respectively.

The color code chart and examples which follow provide the information required to identify color coded resistors.

CODE

COLOR	1ST DIGIT	2ND DIGIT	MULTIPLIER
BLACK	0	0	1
BROWN	1	1	10
RED	2	2	100
ORANGE	3	3	1,000
YELLOW	4	4	10,000
GREEN	5	5	100,000
BLUE	6	6	1,000,000
VIOLET	7	7	10,000,000
GRAY	8	8	100,000,000
WHITE	9	9	1,000,000,000
GOLD	-	-	.1
SILVER	-	-	.01

EXAMPLES



USING A PLASTIC NUT STARTER

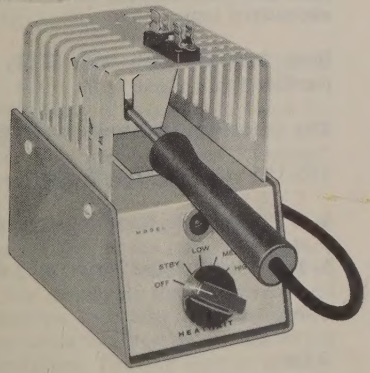
A plastic nut starter offers a convenient method of starting the most used sizes: 3/16" and 1/4" (3-48 and 6-32). When the correct end is pushed down over a nut, the pliable tool conforms to the shape of the nut and the nut is gently held while it is being picked up and started on the screw. The tool should only be used to start the nut.

Assembly and Operation of the

HEATHKIT by Daystrom

SOLDERING IRON

MODEL GH-52



HEATH COMPANY,
BENTON HARBOR,
MICHIGAN

a subsidiary of DAYSTROM, INCORPORATED

TABLE OF CONTENTS

Specifications 2
Introduction 3
Schematic 3
Parts List 4
Construction Notes 6
Step-By-Step Assembly 7
Operation 13
Maintenance 13
Checkout 15
Heat Ranges 15
Service Information 15
Warranty 19

All prices are subject to change without notice. The Heath Company reserves the right to discontinue instruments and to change specifications at any time without incurring any obligation to incorporate new features in instruments previously sold.

Copyright 1962
Heath Company

7/19/63

SPECIFICATIONS

Soldering Iron Type	6 volt, 25 watt element (nominal), with 1/4" beveled, iron-clad tip.
Heat Ranges	Eight different heat ranges are available by using various combinations of Heat Range switch positions and transformer secondary taps.
Switch	Heat Range switch with OFF, STBY, LOW, MED, and HIGH positions.
Transformer	The transformer has tapped primary and secondary windings.
Power Requirements	105-125 volts AC, 50/60 cps.
Soldering Iron Dimensions	7-1/2" long with 6 foot heavy-duty cord.
Cabinet Dimensions	5-3/8" high x 3-5/8" wide x 6" deep.
Net Weight	3 lbs.
Shipping Weight	5 lbs.

INTRODUCTION

Your new Heathkit Soldering Iron is designed specifically for soldering in electronic circuits. There are four different switch-selected heat ranges for each of the two transformer output voltage taps. This provides a choice of eight soldering iron tip temperatures to meet all of your normal soldering requirements. The handle will remain cool and will not become uncomfortable to hold, even if used continuously.

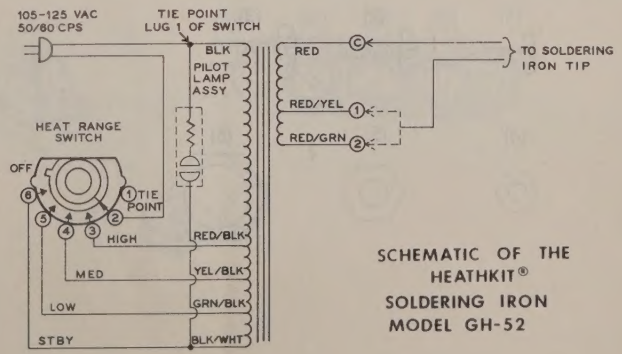
The slim, beveled soldering tip can be used in the hard-to-get-to places that are too "tight" for many other soldering irons and guns. The six-foot cord gives you plenty of freedom to move the iron about. Because the Soldering Iron tip is iron-clad, it requires very little maintenance and does not need repeated "tinning." (Maintenance information is given later in the manual.)

A "lock-in" holder on the transformer cabinet holds the Iron when it is not in use. This feature will hold the hot Iron in place if it is bumped accidentally, but will also allow the Iron to be inserted and removed easily. For soldering that requires both hands to hold the work, you can snap the Iron into the fuseholder-type clip on the guard. This clip holds the Iron so the soldering tip is accessible, leaving both hands free. The clip may be mounted in either of two positions, or it may be left off if you wish.

The Circuit of the Soldering Iron Kit consists mainly of the step-down transformer and Heat Range switch as shown on the Schematic Diagram. The neon pilot lamp is connected across the transformer primary winding to indicate when the Soldering Iron is turned on.

Each position of the Heat Range switch, except the OFF position, selects a different primary tap on the transformer. The tap used determines the step-down voltage ratio of the transformer; the HIGH position provides a lower ratio than the MED position, etc. The lower the step-down ratio, the higher the secondary voltage, and thus the higher the temperature of the Soldering Iron tip. Tap #1 of the secondary winding provides lower voltage than tap #2. Normally tap #1 should be used if your power line voltage is over 117 volts; tap #2 should be used for power line voltages under 117 volts. However, either tap may be used to provide the soldering temperature you want.

After you check the Parts List and assemble your Soldering Iron Kit, be sure to read the Operation section in the rear of the manual.

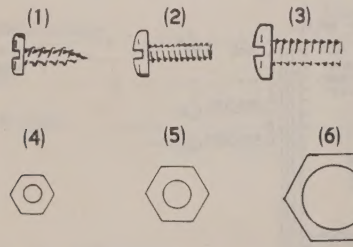


SCHEMATIC OF THE HEATHKIT® SOLDERING IRON MODEL GH-52

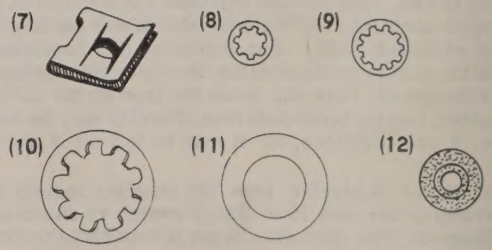
PARTS LIST

Unpack the kit carefully and check each part against the Parts List. The numbers in parentheses in the Parts List are keyed to the numbers on the pictures of the parts to aid in parts identification.

PART No.	PARTS Per Kit	DESCRIPTION
Hardware		
(1) 250-8	4	#6 sheet metal screw
(2) 250-162	9	6-32 x 1/2" screw
(3) 250-137	2	8-32 x 3/8" screw
(4) 252-3	5	6-32 nut
(5) 252-4	2	8-32 nut
(6) 252-7	1	Control nut



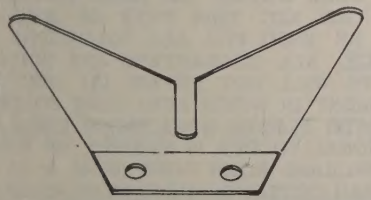
PART No.	PARTS Per Kit	DESCRIPTION
Hardware (cont'd.)		
(7) 252-22	4	6-32 speednut
(8) 254-1	5	#6 lockwasher
(9) 254-2	2	#8 lockwasher
(10) 254-4	1	Control lockwasher
(11) 253-10	1	Control flat washer
(12) 253-2	2	Fiber shoulder washer



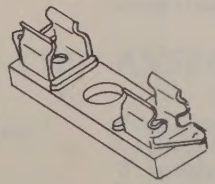
PART No.	PARTS Per Kit	DESCRIPTION
Metal Parts		
90-M252F	844-845	
	1	Chassis
90-M251F	1	Bottom cover
206-M203	1	Top guard
204-M523	1	Iron retaining bracket
Miscellaneous		
490-69	1	Soldering iron handle and cord
490-70	1	Soldering iron tip
54-136	1	Transformer
63-316	1	Switch

PART No.	PARTS Per Kit	DESCRIPTION
Metal Parts (cont'd.)		
412-10	1	Pilot lamp
(2) 422-1	1	Iron holder clip (fuse block type)
(3) 431-8	1	3-screw terminal strip
462-24	1	Knob
75-58	1	Insulator board
(4) 75-24	1	Line cord strain relief
89-1	1	Line cord
(5) 207-5	1	Cable clamp, plastic
261-4	4	Rubber feet
331-6		Solder
595-599	1	Manual

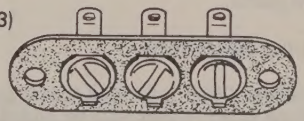
(1)



(2)



(3)



(4)

(5)

CONSTRUCTION NOTES

The following instructions are presented in a logical step-by-step sequence to enable you to complete your kit with the least possible confusion. Be sure to read each step all the way through before beginning the specified operation. Also read several steps ahead of the actual step being performed. This will familiarize you with the relationship of the subsequent operations. When the step is completed, check it off in the space provided. This is particularly important as it may prevent errors or omissions, especially if your work is interrupted.

ILLUSTRATIONS

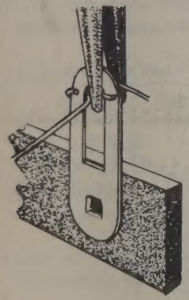
In general, the illustrations in this manual correspond to the actual configuration of the kit: however, in some instances the illustrations may be slightly distorted to facilitate clearly showing all of the parts.

SOLDERING INFORMATION

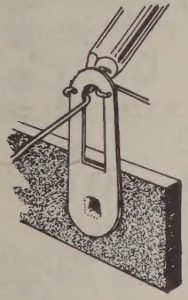
The abbreviation "NS" indicates that a connection should not be soldered yet as other wires will be added. When the last wire is installed, the terminal should be soldered and the abbreviation "S" is used to indicate this. Note that a number will appear after each solder instruction. This number indicates the number of lead that are supposed to be connected to the terminal in point befor it is soldered. For example, if the instruction reads, "Connect lead to lug 1 (S-2)," it will be understood that there will be tw leads connected to the terminal at the time it is soldered

Position the work, if possible, so that gravity will help to kee the solder where you want it. The joint to be soldered should b heated with the flat side of the soldering iron tip sufficientl to melt the solder. Apply only enough solder to the heated termi nal to thoroughly wet the junction. Remove the solder and the the iron when a smooth soldered junction appears. Do not mov the leads until the solder is solidified.

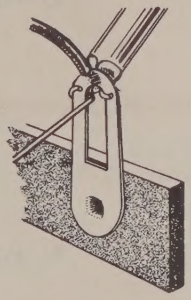
ROSIN CORE SOLDER HAS BEEN SUPPLIED WITH THIS KIT. THIS TYPE OF SOLDER MUST BE USED FOR ALL SOLDERING IN THIS KIT. ALL GUARANTEES ARE VOIDED AND WE WILL NOT REPAIR OR SERVICE EQUIPMENT IN WHICH ACID CORE SOLDER OR PASTE FLUXES HAVE BEEN USED. IF ADDITIONAL SOLDER IS NEEDED, BE SURE TO PURCHASE ROSIN CORE (60:40 or 50:50 TIN-LEAD CONTENT) RADIO TYPE SOLDER.



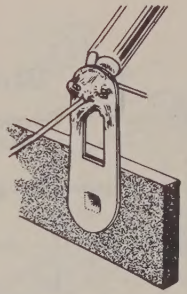
CRIMP WIRES



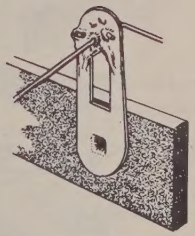
HEAT CONNECTION



APPLY SOLDER



ALLOW SOLDER TO FLOW



PROPER SOLDER CONNECTION

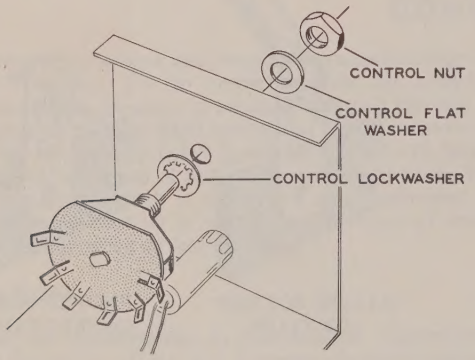
STEP-BY-STEP ASSEMBLY

efer to Pictorial 1 (fold-out from Page 13) for the following teps.

) Install a 6-32 speednut on each of the four chassis brackets. The flat side of each speednut should face outward.

) Cut each pilot lamp lead to 4-1/2". Strip 1/4" of insulation from the end of each lead and tin. "Tin" means to melt a small amount of solder on the exposed lead end to keep the strands of wire together and make soldering easier.

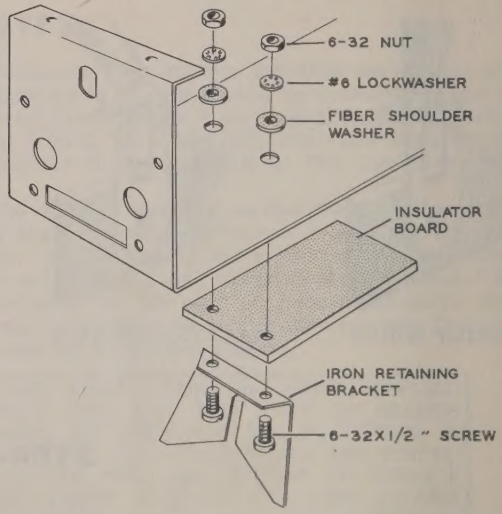
( ) Mount the pilot lamp by pushing it in from outside the chassis until it snaps into place.



Detail 1A

( ) Referring to Detail 1A, mount the switch to the chassis using a control lockwasher, control flat washer, and control nut. Position the switch as shown in Pictorial 1 before tightening the nut.

( ) Install the knob on the switch shaft, with the knob pointer at the OFF position. Rotate the knob to make sure its pointer lines up with the markings on the chassis for each switch position. If necessary, reposition the knob on the switch shaft.



Detail 1B

( ) Mount the iron retaining bracket and insulator board to th chassis. Use 6-32 x 1/2" screws, fiber shoulder washer #6 lockwashers, and 6-32 nuts as shown in Detail 1B. Th shoulder of each fiber washer should fit into the mountin hole. Be careful not to bend the iron retaining bracket durin the remaining kit assembly.

( ) Cut the following transformer leads to 5", strip 1/4" of insulation from the end of each lead, and tin.

LEAD COLOR

Black-white
Green-black
Yellow-black
Red-black
Black

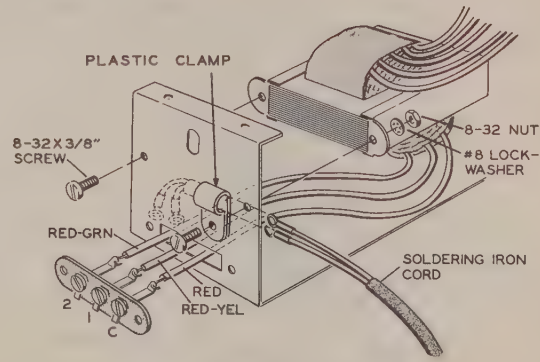
( ) Cut the following transformer leads to 6", strip 1/4" of insulation from the end of each lead, and tin.

LEAD COLOR

Red
Red-yellow
Red-green

( ) Referring to Detail 1C, place the plastic clamp at the end of the heavy outside insulation of the soldering iron cord.

( ) Mount the transformer and plastic clamp as shown in Detail 1C. Use 8-32 x 3/8" screws, #8 lockwashers, and 8-32 nuts.

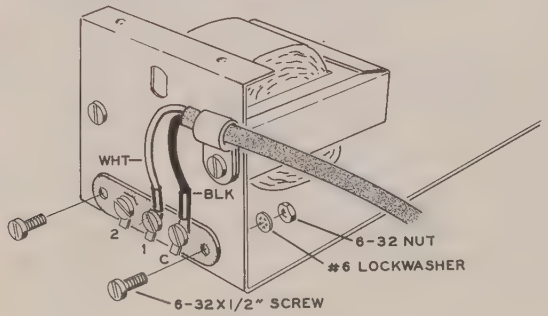


Detail 1C

( ) Pass the red, red-yellow, and red-green leads out through the rectangular opening in the chassis.

( ) Place the terminal strip near the three transformer leads coming through the chassis. Connect the red lead to lug C (S-1), the red-yellow lead to lug 1 (S-1), and the red-green lead to lug 2 (S-1).

( ) Mount the terminal strip to the chassis as shown in Detail 1D. Use 6-32 x 1/2" screws, #6 lockwashers, and 6-32 nuts. The red transformer lead should be at lug C.



Detail 1D

( ) Remove screw C of the terminal strip. Place this screw through the terminal of the black soldering iron lead, then tighten the screw into the terminal strip.

( ) Similarly, connect the white soldering iron lead to screw 1 of the terminal strip.

NOTE: Be careful not to damage the switch lugs when makin connections in the following steps. See Pictorial 1.

( ) Connect either pilot lamp lead to lug 6 of the switch (NS)

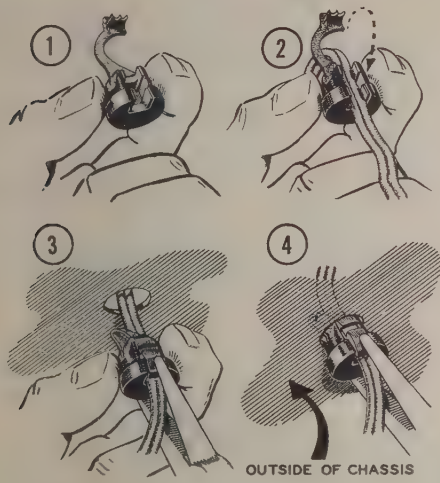
Connect transformer leads to the switch as follows:

	LEAD COLOR	TO LUG
( )	Black-white	6 (S-2)
( )	Green-black	5 (S-1)
( )	Yellow-black	4 (S-1)
( )	Red-black	3 (S-1)
( )	Black	1 (NS)

( ) Connect the remaining pilot lamp lead to lug 1 of the switc (NS).

( ) Tin the stripped ends of the line cord.

( ) Pass the end of the line cord through its hole in the chass as shown in Pictorial 1. Connect either lead to lug 2 (S- and the other lead to lug 1 (S-3) of the switch.

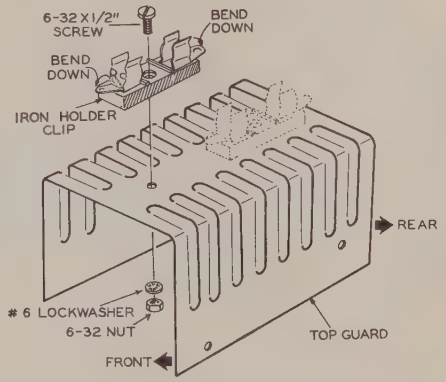


Detail 1E

( ) Install the line cord strain relief on the line cord in the chassis hole. See Detail 1E.

This completes all wiring. See that the connections are properly soldered, and that the leads are positioned as neatly as possible inside the chassis. Inspect the switch lugs to see that there are no "shorts" between the lugs.

Detail 2A



Detail 2B

( ) Install the rubber feet in the bottom cover as shown in Detail 2A.

( ) Detail 2B shows two positions for mounting the iron holder clip. The hole locations in the sides of the top guard can be used to determine its front and rear. Choose either position and mount the iron holder clip (fuse block type) to the top guard. Use a 6-32 x 1/2" screw, #6 lockwasher, and a 6-32 nut.

( ) Bend down the tabs of the iron holder clip. See Detail 2B.

Refer to Pictorial 2 (fold-out from Page 13) for the following steps.

( ) Install the chassis in the bottom cover and secure it from the bottom with four #6 sheet metal screws.

( ) Place the top guard over the chassis so that its edges fit between the chassis and bottom cover. Secure the top guard between the chassis and bottom cover. Note the mounting hole offset spacing in the top guard. Secure the top guard with 6-32 x 1/2" screws. These screws should pass through the holes in the bottom cover and top guard, and then into the speednuts of the chassis.

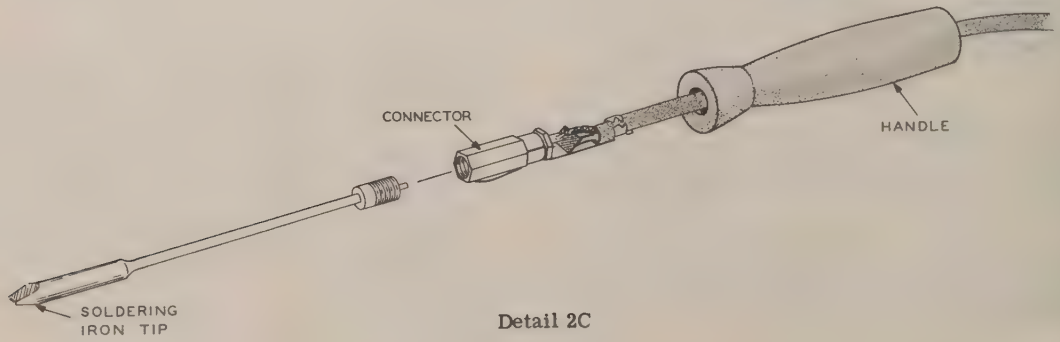
Refer to Detail 2C for the following steps.

( ) Push the soldering iron cord into the handle to expose the connector at the end of the cord.

( ) Screw the soldering iron tip snugly into the connector at the end of the cord.

( ) Pull the cord back through the handle so the connection to the tip is inside the handle.

This completes assembly. Read the Operation section of the manual before putting the Soldering Iron into use.



Detail 2C

OPERATION

NOTE: Always use a good grade of rosin core solder. With rosin core solder, it is not necessary to use separate flux for normal soldering. DO NOT USE ACID CORE SOLDER. The rosin core solder furnished in this kit is excellent for normal soldering in electronic circuits.

MAINTENANCE

The tip of this Soldering Iron is made of copper, coated with a thin layer of iron. Proper care of the soldering tip is essential. Keep the following points in mind whenever you use the Soldering Iron:

1. "Tin" the tip of the Iron with solder each time it is turned on. Apply solder to the tip just as soon as it is hot enough to melt the solder. See Figure 1.

2. When the Iron is in use, wipe the tip with a cloth from time to time, then re-tin the tip. See Figure 2.

3. Cleaning the tip is rarely necessary because it is iron-clad. When necessary, clean the hot tip, using one of the following methods. After cleaning, tin the tip with solder. DO NOT CLEAN THE TIP TOO VIGOROUSLY; the thin iron coating of the tip could be damaged.

   a. Scrape the tip lightly with a knife blade held at a right angle to the tip. See Figure 3.

   b. Smooth the tip with a fine grade of emery cloth. See Figure 4.

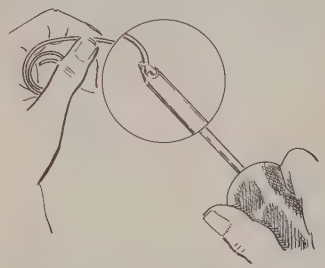


Figure 1

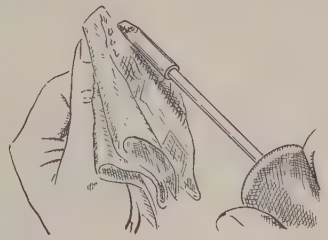


Figure 2

Figure 3

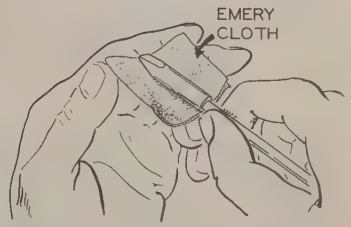
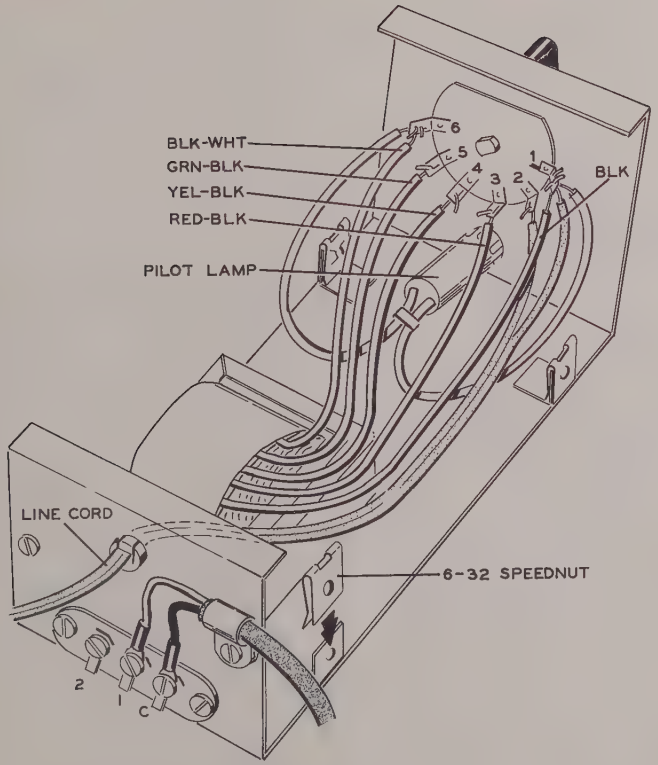
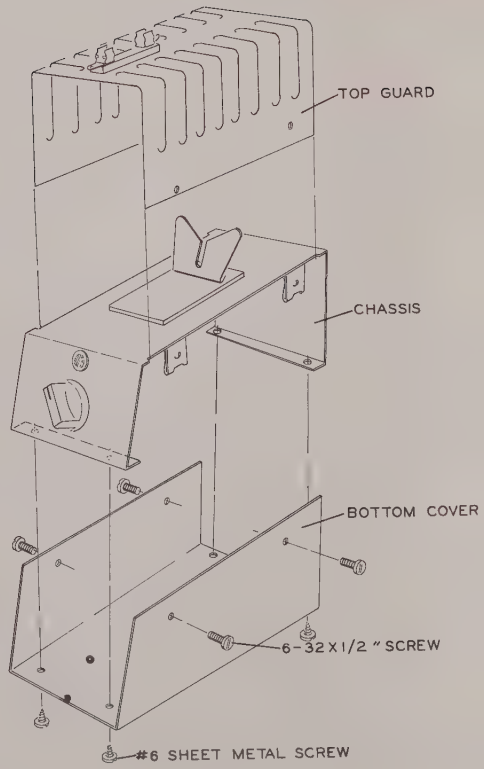


Figure 4



Pictorial 1



Pictorial 2

Figure 5 shows the resting position for the iron when it is not in use. With the Iron in this position, the end of the handle rests just beyond the edge of insulator board, "locking" the iron in place.

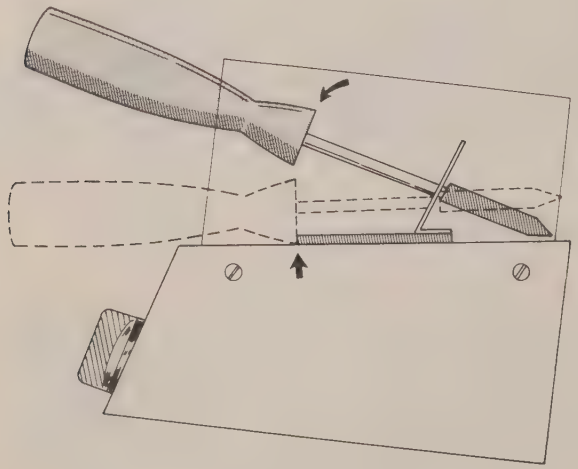


Figure 5

Figure 6 shows the Iron clipped into the iron holder. With the Iron in this position, you have both hands free to manipulate the work to be soldered.

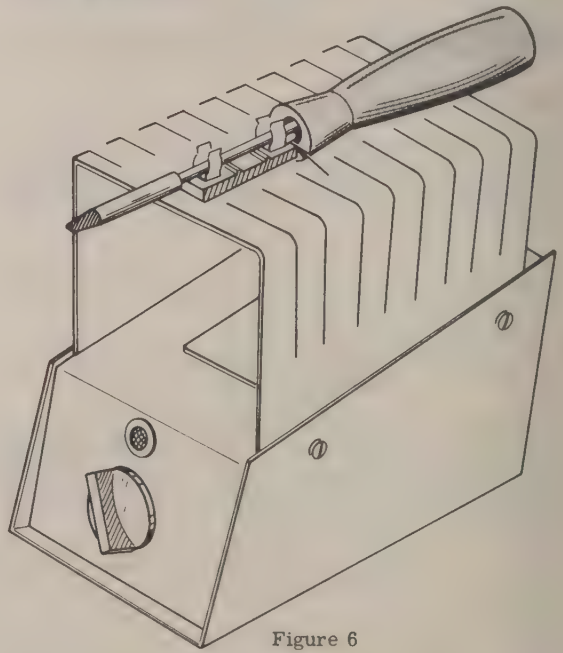


Figure 6

CHECKOUT

Proceed as follows for checkout of the Soldering Iron.

( ) Turn the switch to OFF, then plug the line cord into a standard 117 VAC, 50/60 cps outlet.

NOTE: If any difficulty is encountered in the next step, unplug he line cord, then recheck the wiring, especially at the switch ugs. See that all connections are properly soldered and that he Soldering Iron cord is connected properly to the tip. You can se an ohmmeter to check continuity through the line cord and ransformer primary for each switch position except OFF. Refer o the Schematic.

( ) Turn the switch to STBY. The pilot lamp should light and the Iron should start to heat. Turn the switch to LOW, MED, and HIGH. The pilot lamp should glow progressively brighter for each position. Tin the tip as soon as it is hot enough to melt solder.

( ) For 117 volts line input, the voltages at the terminals on the rear of the chassis should be as listed below. These voltages are given only for reference purposes and may vary slightly.

SWITCH POSITION	STBY	LOW	MED	HIGH
C to 1	4.3 V	5.5 V	5.7 V	6 V
C to 2	4.7 V	6 V	6.2 V	6.5 V

( ) Turn the switch to OFF and unplug the line cord.

HEAT RANGES

The STBY switch position keeps the Soldering Iron tip warm so it will reach soldering temperature quickly when the switch is turned to LOW, MED, or HIGH. Use the switch position that provides the tip temperature you want for each soldering job.

The black lead of the Soldering Iron cord should be connected to the C terminal on the rear of the chassis. The white lead may be connected to either terminal 1 or terminal 2. Terminal 2 provides higher tip temperature than terminal 1.

SERVICE INFORMATION

f, after applying the information in this manual and your best efforts, you are still unable to obtain proper performance, it is uggested that you take advantage of the technical facilities vhich the Heath Company makes available to its customers.

The Technical Consultation Department is maintained for your benefit. This service is available to you at no charge. Its primary purpose is to provide assistance for those who encounter difficulty in the construction, operation or maintenance of HEATHKIT equipment. It is not intended, and is not equipped to function as a general source of technical information involving kit modifications nor anything other than the normal and specified performance of HEATHKIT equipment.

Although the Technical Consultants are familiar with all details of this kit, the effectiveness of their advice will depend entirely upon the amount and the accuracy of the information furnished by you. In a sense, YOU MUST QUALIFY for GOOD technical advice by helping the consultants to help you. Please use this outline:

1. Before writing, repeat the Checkout steps on Page 15. Possibly this will help you to correct the difficulty and it will not be necessary to write.

2. When writing, clearly describe the nature of the trouble. Specifically report operating procedures, switch positions, and anything else that might help to isolate the cause of trouble.

3. Report fully on the results obtained when testing the unit initially. Be as specific as possible.

4. Identify the kit model number and date of purchase if available. Also mention the date of the kit assembly manual. (Date at bottom of Page 1.)

5. Print or type your name and address, preferably in two places on the letter.

With the preceding information, the consultant will know exactly what kit you have, what you would like it to do for you and the difficulty you wish to correct. The date of purchase tells him whether or not engineering changes have been made since it was shipped to you. He will know what you have done in an effort to locate the cause of trouble and, thereby, avoid repetitious suggestions. In short, he will devote full time to the problem at hand, and through his familiarity with the kit, plus your accurate report, he will be able to give you a complete and helpful answer. If replacement parts are required, they will be shipped to you, subject to the terms of the Warranty.

The Factory Service facilities are also available to you, in case you are not familiar enough with electronics to provide our consultants with sufficient information on which to base a diagnosis of your difficulty, or in the event that you prefer to have the difficulty corrected in this manner. You may return the completed equipment to the Heath Company for inspection and necessary repairs and adjustments. You will be charged a minimal service fee, plus the price of any additional parts or material required. However, if the completed kit is returned within the Warranty period, parts charges will be governed by the terms of the Warranty. State the date of purchase, if possible.

Local Service by Authorized HEATHKIT Service Centers is also available in some areas and often will be your fastest, most efficient method of obtaining service for your HEATHKIT equipment. Although charges for local service are generally somewhat higher than for factory service, the amount of increase is usually offset by the transportation charge you would pay if you elected to return your kit to the Heath Company.

HEATHKIT Service Centers will honor the regular 90 day HEATHKIT Parts Warranty on all kits, whether purchased through a dealer or directly from Heath Company; however, it will be necessary that you verify the purchase date of your kit

Under the conditions specified in the Warranty, replacement parts are supplied without charge; however, if the Service Center assists you in locating a defective part (or parts) in your kit, or installs a replacement part for you, you may be charged for this service.

HEATHKIT equipment purchased locally and returned to Heath Company for service must be accompanied by your copy of the dated sales receipt from your authorized HEATHKIT dealer in order to be eligible for parts replacement under the terms of the Warranty.

THIS SERVICE POLICY APPLIES ONLY TO COMPLETED EQUIPMENT CONSTRUCTED IN ACCORDANCE WITH THE INSTRUCTIONS AS STATED IN THE MANUAL. Equipment that has been modified in design will not be accepted for repair. If there is evidence of acid core solder or paste fluxes, the equipment will be returned NOT repaired.

For information regarding modification of HEATHKIT equipment for special applications, it is suggested that you refer to any one or more of the many publications that are available on all phases of electronics. They can be obtained at or through your local library, as well as at most electronic equipment stores. Although the Heath Company sincerely welcomes all comments and suggestions, it would be impossible to design, test, evaluate and assume responsibility for proposed circuit changes for special purposes. Therefore, such modifications must be made at the discretion of the kit builder, using information available from sources other than the Heath Company.

REPLACEMENTS

Material supplied with HEATHKIT products has been carefully selected to meet design requirements and ordinarily will fulfill its function without difficulty. Occasionally, improper operation can be traced to a faulty component. Should inspection reveal the necessity for replacement, write to the Heath Company and supply all of the following information.

A. Thoroughly identify the part in question by using the part number and description found in the manual Parts List.

B. Identify the type and model number of kit in which it is used.

C. Mention date of purchase.

D. Describe the nature of defect or reason for requesting replacement.

The Heath Company will promptly supply the necessary replacement. PLEASE DO NOT RETURN THE ORIGINAL COMPONENT UNTIL SPECIFICALLY REQUESTED TO DO SO. Do not dismantle the component in question as this will void the guarantee. This replacement policy does not cover the free replacement of parts that may have been broken or damaged through carelessness on the part of the kit builder.

SHIPPING INSTRUCTIONS

In the event that your instrument must be returned for service, these instructions should be carefully followed.

Wrap the equipment in heavy paper, exercising care to prevent damage. Place the wrapped equipment in a stout carton of such size that at least three inches of shredded paper, excelsior, or other resilient packing material can be placed between all sides of the wrapped equipment and the carton. Close and seal the carton with gummed paper tape, or alternately, tie securely with stout cord. Clearly print the address on the carton as follows:

To: HEATH COMPANY
Benton Harbor, Michigan

ATTACH A LETTER TO THE OUTSIDE OF THE CARTON BEARING YOUR NAME, COMPLETE ADDRESS, DATE OF PURCHASE, AND A BRIEF DESCRIPTION OF THE DIFFICULTY ENCOUNTERED. Also, include your name and return address on the outside of the carton. Preferably affix one or more "Fragile" or "Handle With Care" labels to the carton, or otherwise so mark with a crayon of bright color. Ship by insured parcel post or prepaid express; note that a carrier cannot be held responsible for damage in transit if, in HIS OPINION, the article is inadequately packed for shipment.

WARRANTY

Heath Company warrants that for a period of three months from the date of shipment, all Heathkit parts shall be free of defects in materials and workmanship under normal use and service and that in fulfillment of any breach of such warranty, Heath Company shall replace such defective parts upon the return of the same to its factory. The foregoing warranty shall apply only to the original buyer, and is and shall be in lieu of all other warranties, whether express or implied and of all other obligations or liabilities on the part of Heath Company and in no event shall Heath Company be liable for any anticipated profits, consequential damages, loss of time or other losses incurred by the buyer in connection with the purchase, assembly or operation of Heathkits or components thereof. No replacement shall be made of parts damaged by the buyer in the course of handling or assembling Heathkit equipment.

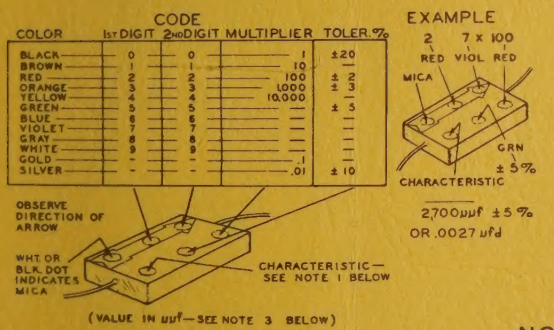
NOTE: The foregoing warranty is completely void and we will not replace, repair or service instruments or parts thereof in which acid core solder or paste fluxes have been used.

HEATH COMPANY

CAPACITOR COLOR CODES

Generally, only mica and tubular ceramic capacitors, used in modern equipment, are color coded. The color codes differ somewhat among capacitor manufacturers, however the codes shown below apply to practically all of the mica and tubular ceramic capacitors that are in common use. These codes comply with EIA (Electronics Industries Association) Standards.

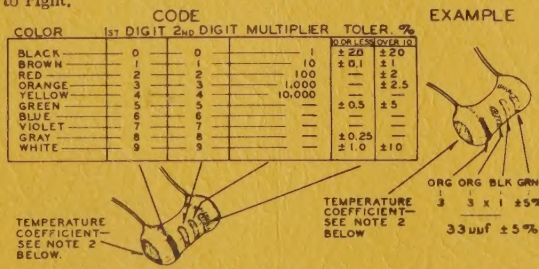
MICA



(VALUE IN μμf—SEE NOTE 3 BELOW)

TUBULAR CERAMIC

Place the group of rings or dots to the left and read from left to right.


CODE
COLOR
1ST DIGIT
2ND DIGIT
MULTIPLIER
TOLER. %
10 OR LESS
OVER 10
BLACK 0 0 1 ± 20 ± 20
BROWN 1 1 10 ± 0.1 ± 1
RED 2 2 100 — ± 2
ORANGE 3 3 1,000 — ± 2.5
YELLOW 4 4 10,000 — —
GREEN 5 5 — ± 0.5 ± 5
BLUE 6 6 — — —
VIOLET 7 7 — — —
GRAY 8 8 — ± 0.25 —
WHITE 9 9 — ± 1.0 ± 10
TEMPERATURE COEFFICIENT— SEE NOTE 2 BELOW.
TEMPERATURE COEFFICIENT— SEE NOTE 2 BELOW
EXAMPLE
ORG ORG BLK GRN
3 3 x 1 ±5%
33 μμf ±5%

(VALUE IN μμf—SEE NOTE 3 BELOW)

NOTES:

1. The characteristic of a mica capacitor is the temperature coefficient, drift capacitance and insulation resistance. This information is not usually needed to identify a capacitor but, if desired, it can be obtained by referring to EIA Standard, RS-153 (a Standard of Electronic Industries Association.)

2. The temperature coefficient of a capacitor is the predictable change in capacitance with temperature change and is expressed in parts per million per degree centigrade. Refer to EIA Standard, RS-198 (a Standard of Electronic Industries Association.)

3. The farad is the basic unit of capacitance, however capacitor values are generally expressed in terms of μfd (microfarad, .000001 farad) and μμf (micro-micro-farad, .000001 μfd); therefore, 1,000 μμf = .001 μfd, 1,000,000 μμf = 1μfd.

HEATH COMPANY

BENTON HARBOR, MICHIGAN

a subsidiary of

DAYSTROM, INCORPORATED

MP MASTER

MA22744

THE WORLD'S FINEST ELECTRONIC EQUIPMENT IN KIT FORM

595-599

LITHO IN U. S. A.